TEJUS
CONSULTANTS

KERB STONE (CORE) TEST REPORT

ent	:	Bruhat Bangalore Mahanagara Palike
ntractor	:	M/s KRIDL
me of Work	:	Improvements to parks in ward no -08 Kodigehalli
of Sample Tested	:	3
te of Testing	:	18.02.2019
chnical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
ade of Concrete	:	M_{15}

Sl No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.425	2546.48	1.70	0.960	34.00	17.32	18.70	17.95	22.44
2	50.00	85.00	0.418	2504.54	1.70	0.960	33.00	16.81	18.15	17.43	21.78
3	50.00	85.00	0.422	2528.50	1.70	0.960	32.60	16.60	17.93	17.21	21.52

Sri Sundaresh

Note:

The report shall not be reproduced, except in full, without the written approval of the laboratory.
The results indicated above are based on the tests carried out on the samples received in the laboratory.
Any Query regarding the report must be reported reported within 90 days from the date of testing.

Consultant's Representative

TEJUS
CONSULTANTS

Test Report on Cement

Project	Improvements to parks in ward no -08 Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	22.02.2019
Sample Submitted By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

Sri. Sundaresh AE

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Improvements to parks in ward no -08 Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	Proposed Use	PCC
Sample Location	At Site/Plant	Date of Sampling	22.02.2019
		Date of Testing	22.02.2019

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	85	85	2.83	97.17	95-100
20.00mm	1420	1505	50.17	49.83	30-70
10.00mm	950	2455	81.83	18.17	10-35
4.75mm	454	2909	96.97	3.03	0-5
Pan	91	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to parks in ward no -08 Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	PCC
Location/Source	At Site/Plant	**Date of Sampling**	22.02.2019
Period of Soaking	24 hours	**Date of Testing**	22.02.2019

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		665	640	670	
B	Weight of oven - dry sample gm.		655	630	661	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1694	1678	1696	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.663	2.658	2.655	**2.658**
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.527	1.587	1.362	**1.492**

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to parks in ward no -08 Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	Fine aggregate (River Sand/ M sand)		Proposed Use	concrete
Sample Location	At Site/Plant		Date of Sampling	22.02.2019
			Date of Testing	22.02.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	211	211	7.03	92.97	90 - 100
2.36 mm	315	526	17.53	82.47	75 - 100
1.18 mm	415	941	31.37	68.63	55 - 90
0.600 mm	482	1423	47.43	52.57	35 -59
0.300 mm	752	2175	72.50	27.50	8-30
0.150 mm	620	2795	93.17	6.83	0 - 10
Pan	205	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

Test Report on Cement

Project	Improvements to parks in ward no -08 Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	25.02.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	352 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	2mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079. O : +91 80 23287532, tejusconsultants@gmail.com

TEJUS
CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to parks in ward no -08 Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	25.02.2019
Period of Soaking	24 hours	Date of Testing	25.02.2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	653	680	662	
B	Weight of oven - dry sample gm.	643	670	652	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1686	1703	1691	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.657	2.659	2.650	**2.655**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.555	1.493	1.534	**1.527**

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

Authorised Signatory

TEJUS CONSULTANTS

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to parks in ward no -08 Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**Fine aggregate (River Sand/ M sand)**	**Proposed Use**	concrete
Sample Location	At Site/Plant	**Date of Sampling**	25.02.2019
		Date of Testing	25.02.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	**100**
4.75 mm	215	215	7.17	92.83	**90 - 100**
2.36 mm	308	523	17.43	82.57	**75 - 100**
1.18 mm	425	948	31.60	68.40	**55 - 90**
0.600 mm	492	1440	48.00	52.00	**35 -59**
0.300 mm	712	2152	71.73	28.27	**8-30**
0.150 mm	632	2784	92.80	7.20	**0 - 10**
Pan	216	3000			-

Remarks : Satisfactory / Not Satisfactory

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

Authorised Signatory

TEJUS CONSULTANTS

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to parks in ward no -08 Kodigehalli	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	25.02.2019
		Date of Testing	25.02.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	265	265	2.65	97.35	95 - 100
10.00 mm	4832	5097	50.97	49.03	25 - 55
4.75 mm	4225	9322	93.22	6.78	0 - 10
Pan	678	10000			

Remarks : Satisfactory / Not Satisfactory

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to parks in ward no -08 Kodigehalli	
Consultants	TEJUS CONSULTANTS	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	CONCRETE
Sample Location	At Site/Plant	**Date of Sampling**	25.02.2019
		Date of Testing	25.02.2019

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	532	532	5.32	94.68	90-100
10.0	4698	5230	52.30	47.70	40-85
4.75	4550	9780	97.80	2.20	0-10
Pan	220	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to parks in ward no -08 Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	25.02.2019	04.03.2019	7 days	8.125	22500	216	9.60	9.54
2	25.02.2019	04.03.2019	7 days	8.135	22500	218	9.69	
3	25.02.2019	04.03.2019	7 days	8.120	22500	210	9.33	

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to parks in ward no -08 Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	25.02.2019	25.03.2019	28 days	8.135	22500	352	15.64	15.44
2	25.02.2019	25.03.2019	28 days	8.140	22500	348	15.47	
3	25.02.2019	25.03.2019	28 days	8.150	22500	342	15.20	

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

Authorised Signatory

TEJUS CONSULTANTS
No. 132, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079. O : +91 80 23287532, tejusconsultants@gmail.com

TEJUS
CONSULTANTS

TEST REPORT ON PRE-POLISHED DESIGNER CEMENT CONCRETE TILES	
Client	: BRUHATH BANGALORE MAHANAGARA PALIKE
Contractor	: M/s KRIDL
Name of the Work	: Improvements to parks in ward no -08 Kodigehalli
Date	02.03.2019
Technical Reference	: IS: 1237-1980 (Reaffirmed 2006)
No. of Samples Tested	: 18 (Twelve)

I. WET TRANSVERSE STRENGTH TEST:

Sl. No.	Measured Dimension (mm)	Wet Transverse Strength (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 1237-1980 (Reaffirmed 2006)
1	300 x 300 x 21.8	5.8	5.95	The average wet transverse strength should not be less than 3.0 N/mm^2 when 6 full size tiles are tested.
2	300 x 300 x 21.6	6.1		
3	300 x 300 x 23.2	5.9		
4	300 x 300 x 24.5	5.8		
5	300 x 300 x 22.3	5.9		
6	300 x 300 x 21.7	6.2		

II. WATER ABSORPTION TEST:

Sl. No.	Measured Dimension (mm)	Water Absorption (% by Wt)	Average (% by Wt)	Requirement as per IS: 1237-1980 (Reaffirmed 2006)
1	300 x 300 x 22.8	2.9	2.90	The average percentage of water absorption should not exceed 10% when 6 full size tiles are tested.
2	300 x 300 x 21.6	2.6		
3	300 x 300 x 23.2	3.2		
4	300 x 300 x 24.5	2.8		
5	300 x 300 x 22.3	3.0		
6	300 x 300 x 21.7	2.9		

III. HARDNESS:

Sl. No.	Measured Dimension (mm)	Moh's scale Hardness No.
1	300 x 300 x 22	5
2	300 x 300 x 22.60	5
3	300 x 300 x 22.0	5

TEJUS CONSULTANTS

TEJUS
CONSULTANTS

4	300 x 300 x 23.9	5
5	300 x 300 x 24.1	5
6	300 x 300 x 22.6	5

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

Authorised Signatory

TEJUS CONSULTANTS